A. Nucleic acid encoding human Cloaked-2 polypeptide with signal peptide (SEQ ID NO:1)

- 1 TACTGGAAGGTGGCGTGCCCTCTCTGGCTGGTACCATGCAGCTCCCACT
- 51 GGCCCTGTGTCTCGTCTGCCTGCTGGTACACACACCCTTCCGTGTAGTGG
- 101 AGGGCCAGGGGTGGCAGGCGTTCAAGAATGATGCCACGGAAATCATCCCC
- 151 GAGCTCGGAGAGTACCCCGAGCCTCCACCGGAGCTGGAGAACAACAAGAC
- 201 CATGAACCGGGCGAGAACGGAGGGCGCCTCCCCACCACCCCTTTGAGA
- 251 CCAAAGACGTGTCCGAGTACAGCTGCCGCGAGCTGCACTTCACCCGCTAC
- 301 GTGACCGATGGGCCGTGCCGCAGCGCCAAGCCGGTCACCGAGCTGGTGTG
- 351 CTCCGGCCAGTGCGGCCCGGCGCGCCTGCTGCCCAACGCCATCGGCCGCG
- 401 GCAAGTGGTGGCGACCTAGTGGGCCCGACTTCCGCTGCATCCCCGACCGC
- 451 TACCGCGCGCAGCGCGTGCAGCTGCTGTCCCCGGTGGTGAGGCGCCGCG
- 501 CGCGCGCAAGGTGCGCCTGGTGGCCTCGTGCAAGTGCAAGCGCCTCACCC
- 551 GCTTCCACAACCAGTCGGAGCTCAAGGACTTCGGGACCGAGGCCGCTCGG
- 601 CCGCAGAAGGCCGGAAGCCGCGCCCCGGAGCGCCAAAGCCAA
- 701 CCGCGGGCCCCGGCCCTGAACCCGCCCCACATTTCTGTCCTCTGC
- 751 GCGTGGTTT

B. Human Cloaked-2 polypeptide most likely mature form (SEQ ID NO:2)

- 1 QGWQAFKNDATEIIPELGEYPEPPPELENNKTMNRAENGGRPPHHPFETK
- 51 DVSEYSCRELHFTRYVTDGPCRSAKPVTELVCSGQCGPARLLPNAIGRGK
- 101 WWRPSGPDFRCIPDRYRAQRVQLLCPGGEAPRARKVRLVASCKCKRLTRF
- 151 HNQSELKDFGTEAARPQKGRKPRPRARSAKANQAELENAY

C. Human Cloaked-2 polypeptide with signal peptide (SEQ ID NO:5)

- 1 MQLPLALCLVCLLVHTAFRVVEGQGWQAFKNDATEIIPELGEYPEPPPEL
- 51 ENNKTMNRAENGGRPPHHPFETKDVSEYSCRELHFTRYVTDGPCRSAKPV
- 101 TELVCSGQCGPARLLPNAIGRGKWWRPSGPDFRCIPDRYRAQRVQLLCPG
- 151 GEAPRARKVRLVASCKCKRLTRFHNQSELKDFGTEAARPQKGRKPRPRAR
- 201 SAKANQAELENAY

A. Nucleic acid encoding mouse Cloaked-2 polypeptide with signal peptide (SEQ ID NO:3)

- 1 ATGCAGCCCTCACTAGCCCCGTGCCTCATCTGCCTACTTGTGCACGCTGC
- 51 CTTCTGTGCTGTGGAGGGCCAGGGGTGGCAAGCCTTCAGGAATGATGCCA
- 101 CAGAGGTCATCCCAGGGCTTGGAGAGTACCCCGAGCCTCCTCCTGAGAAC
- 151 AACCAGACCATGAACCGGGCGGAGAATGGAGGCAGACCTCCCCACCATCC
- 201 CTATGACGCCAAAGATGTGTCCGAGTACAGCTGCCGCGGAGCTGCACTACA
- 251 CCCGCTTCCTGACAGACGGCCCATGCCGCAGCGCCAAGCCGGTCACCGAG
 301 TTGGTGTGCTCCGGCCAGTGCGGCCCGCGGCGCTGCTCCCAACGCCAT
- 351 CGGGCGCGTGAAGTGGTGGCGCCCGAACGGACCGGATTTCCGCTGCATCC
- 401 CGGATCGCTACCGCGCGCAGCGGGTGCAGCTGCTGTGCCCCGGGGGCGCG
- 451 GCGCCGCGCTCGCGCAAGGTGCGTCTGGTGGCCTCGTGCAAGTGCAAGCG
- 501 CCTCACCCGCTTCCACAACCAGTCGGAGCTCAAGGACTTCGGGCCGGAGA
- 551 CCGCGCGCCGCAGAAGGGTCGCAAGCCGCGGCCCCGGGGAGCC
- 601 AAAGCCAACCAGGCGGAGCTGGAGAACGCCTACTAG
- B. Mouse Cloaked-2 polypeptide most likely mature form (SEQ ID NO:4)
 - 1 QGWQAFRNDATEVIPGLGEYPEPPPENNQTMNRAENGGRPPHHPYDAKDV
 - 51 SEYSCRELHYTRFLTDGPCRSAKPVTELVCSGQCGPARLLPNAIGRVKWW
 - 101 RPNGPDFRCIPDRYRAQRVQLLCPGGAAPRSRKVRLVASCKCKRLTRFHN
 - 151 QSELKDFGPETARPQKGRKPRPGARGAKANQAELENAY
- C. Mouse Cloaked-2 polypeptide with signal peptide (SEQ ID NO:6)
 - 1 MQPSLAPCLICLLVHAAFCAVEGQGWQAFRNDATEVIPGLGEYPEPPPEN
 - 51 NOTMNRAENGGRPPHHPYDAKDVSEYSCRELHYTRFLTDGPCRSAKPVTE
 - 101 LVCSGOCGPARLLPNAIGRVKWWRPNGPDFRCIPDRYRAQRVQLLCPGGA
 - 151 APRSRKVRLVASCKCKRLTRFHNQSELKDFGPETARPQKGRKPRPGARGA
 - 201 KANQAELENAY

GAP of: Human Cloaked-2 check: 5775 from: 1 to: 213 to: Mouse Cloaked-2 from: 1 to: 211 check: 9489 Symbol comparison table: /GCGDISK/gcg10/gcgcore/data/rundata/blosum62.cmp CompCheck: 6430 Average Match: 2.912 Gap Weight: 8 Average Mismatch: -2.003 Length Weight: 2 Quality: 1028 Length: 213 Gaps: Ratio: 4.872 Percent Identity: 88.152 Percent Similarity: 91.469 Match display thresholds for the alignment (s): = IDENTITY : = 2 1 Human Cloaked-2 (SEQ ID NO: 5) x Mouse Cloaked-2 (SEQ ID NO: 6) 1 MQLPLALCLVCLLVHTAFRVVEGQGWQAFKNDATEIIPELGEYPEPPPEL 50 1 MQPSLAPCLICLLVHAAFCAVEGQGWQAFRNDATEVIPGLGEYPEPPP.. 48 51 ENNKTMNRAENGGRPPHHPFETKDVSEYSCRELHFTRYVTDGPCRSAKPV 100 49 ENNQTMNRAENGGRPPHHPYDAKDVSEYSCRELHYTRFLTDGPCRSAKPV 98 101 TELVCSGQCGPARLLPNAIGRGKWWRPSGPDFRCIPDRYRAQRVQLLCPG 150 99 TELVCSGQCGPARLLPNAIGRVKWWRPNGPDFRCIPDRYRAQRVQLLCPG 148 151 GEAPRARKVRLVASCKCKRLTRFHNQSELKDFGTEAARPQKGRKPRPRAR 200

149 GAAPRSRKVRLVASCKCKRLTRFHNQSELKDFGPETARPQKGRKPRPGAR 198

201 SAKANQAELENAY 213 |||||||||| 199 GAKANQAELENAY 211

GAP of: Human Cloaked-1 check: 1888 from: 1 to: 183 to: Human Cloaked-2 check: 185 from: 1 to: 190	
Symbol comparison table: /GCGDISK/gcg10/gcgcore/data/rundata/blosum62.cmp CompCheck: 6430	
Gap Weight: 8 Average Match: 2.912 Length Weight: 2 Average Mismatch: -2.003	
Quality: 335 Length: 196 Ratio: 1.831 Gaps: 6 Percent Similarity: 52.542 Percent Identity: 42.938	
<pre>Match display thresholds for the alignment(s):</pre>	
Human Cloaked-1 (SEQ ID NO: 25) x Human Cloaked-2 (SEQ ID NO: 2)	
1FKNDATEILYSHVVKP.VPAHPSSNSTLNQARNGGRHFSNTGLDR 44	
45 NTRVQVG C RELRSTKYISDGQ C TSISPLKELVCAGECLPLPVLPNWIGGG 94	
50 KDVSEYS C RELHFTRYVTDGP C RSAKPVTELV <u>CSGQC</u> GPARLLPNAIGRG 9	9
95 YGTKYWSRRSSQEWR C VNDKTRTQRIQLQ C QDG.STRTYKITVVTACKCK 1	
100 KWW.RPSGPDFRCIPDRYRAQRVQLLCPGGEAPRARKVRLVASCKCK 1	45
144 RYTRQHNESSHNFESMSPAKPVQHHRERKRASKSSKHSMS 183 : : : : 146 RLTRFHNQSELKDFGTEAARPQKGRKPRPRA.RSAKANQAELENAY 190	